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INTELLIGENCE

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SUBJECT Sverdlovsk Laboratory and Test Field for V-Weapon Control Devices

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SUPPLEMENT TO REPORT NO.

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The Test Station for V-Weapon Control Devices was approximately 15 km west of Sverdlovsk (56°54'N/67°05'E). The station, covering an area of about 400 x 180 meters, was directed by Soviets. (1) Major (air force) Shishenko or Chenko (phonetic spelling) (fnu) was commanding officer and technical manager of the institute.

An average of 15 to 20 German engineers and technicians were temporarily assigned to the institute. Machine Engineer Erwin Schulze, Engineer Lohmann (fnu), both from the Askania plant, and four other testing experts, among them Zamorra (fnu) and Glupe (fnu), were permanently stationed at the institute. All other Germans came from various parts of the U.S.S.R. and stayed only a short period. Most of these men were experts in the field of control devices. They worked in this capacity or were in charge of a big depot with German directional control devices in the U.S.S.R. Two engineers from the Junkers Plant and one engineer from Peenemuende frequently came to the institute. The Junkers engineers were experts for K 4 ue servo units, and the engineer from Peenemuende was a specialist for K 12 control devices used for V-2 missiles. (2)

3. The institute tested the functioning of mass-produced servo units. The units arrived by truck and had to leave within 24 hours with all defects corrected/the institute. During the period from mid-February until mid-March 1948, [redacted] about ten servo units which were similar to the K 12 set. [redacted] the K 12 servo unit, which was first shipped to Peenemuende in 1941, is much smaller than the K 4 ue and has a weight of about 16 kg. However, on the servo units at Sverdlovsk, the gear pump was powered not by a continuous-rotary current rectifier but with about 250 watts and 20,000 rpm. [redacted]

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These devices proved inferior to the servo units in sustained operation. The failures, originating from the ball bearings, caused insufficient stability, irregular running, a decrease in the number of revolutions per minute and loud noise. (3) During July and August 1948, [redacted] 25X1

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4. On the upper floor of the main building there was a test field where 10 Germans and 10 Soviets tested and checked servo units as to oil pressure, torque, deflection of control surface, and rudder speed. About 20 units were tested every day. Even though there were only minor complaints, the unreasonably small tolerances caused a rejection of 30 to 50 percent of the sets. It was rumored among the Germans that the test institute owed its existence only to these tolerances which the Soviets working at the institute did not change in order to maintain these very agreeable working conditions.

5. The institute was guarded by air force soldiers and officers.

25X1 [redacted] Comments.

(1) For location of the test institute, see Annex 1, sketch 1. A commercial airfield is known to be located southeast of 25X1 Sverdlovsk. [redacted] The layout of the test station is reproduced in Annex 1, sketch 2 and in Annex 2.

(2) The engineers reported are not known and cannot be identified. However, the information is believed to be correct, [redacted] 25X1

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from the Junkers Plant and from Peenemuende. K 4 ue servo units were biaxial control devices installed in He-111 and Ju-88 aircraft. Large stocks of such devices were available at the end of the war.

(3) The data indicate that Soviet-made units are concerned rather than captured German devices. It is assumed that they were manufactured in Sverdlovsk. Whether or not the new Sverdlovsk radio [redacted] 25X1 which reportedly also tested remote control devices for torpedoes, is connected with the test institute cannot be determined.

Attachments: Two
1. Sketch of the location of the field test station for V-weapon control devices near Sverdlovsk.
2. Layout sketch of the test field and laboratories.

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